



GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Water Rights

KENT L. JONES
State Engineer/Division Director

October 13, 2009

Hyrum Irrigation Company
Attn: Jared Clawson
327 South 800 East
Hyrum, UT 84319

RE: **Little Bear River Distribution System, Little Feeder, SEAA 1318, Account 100810, WR No. 25-1719 et al.**

Dear Mr. Clawson:

This letter is to request a status report of the progress and work accomplished in meeting the requirements of the Measuring Device Notice (SEAA 1318) issued on July 1, 2009 to install a water meter at the Hyrum Little Feeder pipeline below Hyrum Reservoir.

Due to the nature of the work involved and the time required to get the telemetry system up and running, we recommend the meter vault be installed as soon as possible to make the needed progress to finish the equipment installation before April. The construction of these meter vaults is the responsibility of the irrigation companies and is the first step toward completion. Hyrum Irrigation Company must have this work completed very soon in order to meet the final deadline in April. Some of the general specifications that may be helpful are:

- These water meter vaults typically consist of a vertical section of galvanized steel culvert with custom cuts on the bottom to enable the culvert to extend below the pipeline with a minimum of 2 feet clearance on the sides of the pipeline and 1 foot clearance below the bottom of the pipeline.
- Typically gravel is placed in the bottom of the access vault to improve drainage and help support the culvert during construction so it doesn't sit directly on the pipeline.
- The culvert should extend above ground level about a foot or two to prevent surface water inflow.
- The culvert meter vault must have a sturdy weatherproof hinged cover that is lockable to provide reasonable access to an authorized person.
- A ladder should be permanently attached to the inside of the meter vaults to enable safe access to the pipeline and meter equipment.
- The culvert should be a minimum of about 5 feet diameter or larger if needed to access the entire pipeline. The vaults should provide access to

the entire pipeline to enable the electronic sensors to be clamped or attached to the outside of the pipeline.

- The meter vaults should be located where there is not groundwater interference.
- We recommend the meter vault on the Little Hyrum Feeder Canal pipeline be located in a suitable location where the pipeline configuration enables the pipeline to always be full of water whenever it is in use. Our meters do not work properly in partially filled pipes. It might be best to review the construction drawings if these are available in order to find the best location.
- Water meters vaults should be located in a straight section of pipe that is typically ten pipe diameters distance from any bends or fittings or open channel (pipe not flowing full) conditions to prevent unwanted interference with the flow measurement.

It is important that these meter vaults be constructed in a timely manner to enable the installation of the electronic equipment before the April deadline. After these vaults are constructed, our staff will then be able to install the meters and telemetry equipment based on your company paying only the costs associated with purchasing the electronic and electrical equipment (power supply, electronics and telemetry parts). The estimated costs to Hyrum Irrigation Company are about \$2000 (\$1200 for the meter and about \$800 for other associated electrical/electronics). This equipment is necessary to improve the water measurements within the distribution system and upgrade it to the present standards and to satisfy the state laws and requirements. Please arrange to have this work completed and provide the funds for the electronic equipment to enable our staff to purchase and install the equipment before the April due date as required.

Please contact me at (801) 538-7469 if you have questions concerning this letter or regarding what you need to do to complete the required work and purchase the equipment. You may also contact Will Atkin, Regional Engineer in our Logan Office at (435) 752-8755 if you have questions.

Sincerely,



Ben L. Anderson, P.E.
Water Rights Distribution Engineer

cc: Will Atkin, Regional Engineer
Greg Hansen, Commissioner

SCANNED